U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No. 02307O-128610US

First Inventor Zhang, Ruihong H.

EV 330856421 US

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Title TREATMENT OF SWINE WASTEWATER BY BIOLOGICAL AND MEMBRANE SEPARATION TECHNOLOGIES

Express Mail Label No.

Mail Stop Patent Application APPLICATION ELEMENTS **Commissioner for Patents** ADDRESS TO P.O. Box 1450 See MPEP chapter 600 concerning design patent application contents. Alexandria, VA 22313-1450 1. X 7. CD-ROM or CD-R in duplicate, large table or Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission 2. Applicant claims small entity status. See 37 CFR 1.27. (if applicable, all necessary) a. Computer Readable Form (CRF) 3. X Specification Total Pages (preferred arrangement set forth below) Specification Sequence Listing on: Descriptive title of the Invention i. CD-ROM or CD-R (2 copies); or Cross Reference to Related Applications ii. 🗌 paper number of pages Statement Regarding Fed sponsored R & D c. Statements verifying identity of above copies Reference to sequence listing, a table, or a computer program listing appendix **ACCOMPANYING APPLICATIONS PARTS** - Background of the Invention Brief Summary of the Invention 9. 🔲 Assignment Papers (cover sheet & document(s)) - Brief Description of the Drawings (if filed) 10. 🔲 37 CFR 3.73(b) Statement ☐ Power of - Detailed Description (when there is an assignee) Attorney Claim(s) - Abstract of the Disclosure 11. 🔲 English Translation Document (if applicable) 12. Information Disclosure Copies of IDS 4. X Drawing(s) (35 U.S.C.113) (Total Sheets 5 Statement (IDS)/PTO-1449 Citations 5. Oath or Declaration (Total Pages 13. Preliminary Amendment a. Newly executed (original or copy) 14. 🛛 Return Receipt Postcard (MPEP 503) b. Copy from a prior application (37 CFR 1.63 (d)) (Should be specifically itemized) (for a continuation/divisional with Box 18 completed) 15. 🔲 Certified Copy of Priority Document(s) i. DELETION OF INVENTOR(S) (if foreign priority is claimed) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 16. 🗌 Nonpublication Request under 35 U.S.C: 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent 6. X Application Data Sheet. See 37 CFR 1.76 Other: 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: □ Continuation □ Divisional ☐ Continuation-in-part (CIP) of prior application No: Examiner Prior application information: Art Unit: For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS OR Correspondence address below ⊠ Customer Number 20350 PATENT TRADEMARK OFFICE Name Address City State Zip Code Country Telephone 51.868 Name (Print/Type) Beth L. Kelly Registration No. (Attorney/Agent) 07/23/2003 Signature

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number Complete if Known FEE TRANSMITTAL Application Number for FY 2003 07/23/2003 Filing Date Effective 01/01/2003. Patent fees are subject to annual revision. First Named Inventor Zhang, Ruihong H. Applicant claims small entity status. See 37 CFR 1.27 **Examiner Name** Art Unit **TOTAL AMOUNT OF PAYMENT** 02307O-128610US Attorney Docket No. METHOD OF PAYMENT (check all that apply) FEE CALCULATION (continued) 3. ADDITIONAL FEES Credit Card MoneyOrder Other None Large Entity mall Entity Deposit Account: Fee Fee Description Deposit Code (\$) (\$) Code Paid 20-1430 Account 1051 2051 65 130 Surcharge - late filing fee or oath Number 1052 2052 50 25 Surcharge - late provisional filing fee or cover sheet. Deposit 1053 130 1053 130 Non-English specification Townsend and Townsend and Crew LLP Account Name 1812 2,520 1812 2,520 For filing a request for reexamination Requesting publication of SIR prior to 1804 920* 1804 920* he Commissioner is authorized to: (check all that apply) Examiner action Charge fee(s) indicated below Credit any overpayments 1805 1,8401 1805 1,8401 Requesting publication of SIR after Charge any additional fee(s) during the pendency of this application Examiner action Charge fee(s) indicated below, except for the filing fee 1251 Extension for reply within first month 110 2251 55 to the above-identified deposit account 1252 410 2252 205 Extension for reply within second **FEE CALCULATION** Extension for reply within third month 1253 2253 465 930 **BASIC FILING FEE** 1254 1.450 2254 725 Extension for reply within fourth arge Entity Small Entity Extension for reply within fifth month Fee Description 1255 1.970 2255 985 Fee Paid Code (\$) Code (\$) 1401 2401 160 Notice of Appeal 320 Utility filing fee 1001 750 2001 375 375 1402 320 2402 160 Filing a brief in support of an appeal 1002 330 2002 165 Design filing fee 1403 280 2403 140 Request for oral hearing 2003 260 520 Plant filing fee 1003 Petition to institute a public use 1451 1,510 1451 1,510 1004 750 2004 375 Reissue filing fee proceeding 1005 160 2005 80 Provisional filing fee 1452 110 2452 55 Petition to revive - unavoidable 1453 2453 650 Petition to revive - unintentional 1 300 SUBTOTAL (1) 1501 1,300 2501 650 Utility issue fee (or reissue) 470 2502 235 Design issue fee 1502 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE 2503 Plant issue fee 1503 630 315 Fees from 1460 1460 130 Petitions to the Commissioner 130 Extra Claims Fee Paid 1807 1807 50 Petitions related to provisional 50 \$180 Total Claims 40 20 applications 1806 Submission of Information Disclosure 1806 180 180 d\$42 laims 8021 40 8021 40 Recording each patent assignment Multiple per property (times number of Dependent properties) arge Entity Small Entity 750 2809 375 Filing a submission after final rejection 1809 (37 CFR § 1.129(a)) Fee Description 2810 For each additional invention to be 750 ode 1810 Code (\$) (\$) examined (37 CFR § 1.129(b)) Claims in excess of 20 202 18 2202 Request for Continued Examination Independent claims in excess of 3 1201 84 2201 42 750 2801 375 1801 (RCE) Multiple dependent claim, if not paid 1203 280 2203 140 1802 Request for expedited examination 900 1802 Reissue independent claims 1204 2204 of a design application over original patent * Reissue claims in excess of 20 Other fee (specify) 205 18 2205 and over original patent (\$) *Reduced by Basic Filing Fee Paid SUBTOTAL (3) SUBTOTAL (2) (\$)180

SUBMITTED BY			Complete (if applicable)			
Name (Print/Type)	Beth L. Kelly	Registration No. (Attorney/Agent)	51,868	Telephone	415-576-0200	
Signature	Litt	1 Inle		Date	07/23/2003	

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)			Application Number				
			Filing Date		July 23, 2002		
			First Named Inventor		Zhang, Ruihong H.		
			Art Unit				
			Examiner Name				
Total Number of Pages in This Submission 49		Attorney Docket Number		02307O-128610US			
	ENC	LOSURE	S (Check all that apply	()			
Fee Transmittal Form	☐ Drawing(s)		After Allowance Communication to Group				
Fee Attached	Licensing-related Papers		Appeal Communication to Board of Appeals and Interferences				
Amendment/Reply	Petition		Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)				
After Final	Petition to Convert to a Provisional Application		Proprietary Information				
Affidavits/declaration(s)	Power of Attorney, Revocation Change of Correspondence Address		☐ Status	Status Letter			
Extension of Time Request	Terminal Disclaimer			Other Enclosure(s) (please identify below):			
Express Abandonment Request Information Disclosure Statement	Request for Refund CD, Number of CD(s)		Return Postcard; Fee Trans. SB/17 with fee auth. to Dep. Acct. 20-1430 (1 pg., 2 copies); Appl. Data Sheet (3 pgs.); Util. Pat. Appl. Cover Sheet SB/05 (1 pg.); Unnumbered cover sheet (1 pg.); Util. Pat. Appl. including spec., claims				
Certified Copy of Priority				and abstra	ct (36 pgs.); Figs. 1-6 (5 sheets). charge any additional fees to Deposit		
Document(s)	Rema	rks	Account 20-1430.				
Response to Missing Parts/ Incomplete Application		· · · · ·	J		: -		
Response to Missing Parts under 37 CFR 1.52 or 1.53				*			
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Firm Townsend and Tow	vnsend and	Crew LLI	9				
or Individual Beth L. Kelly		·	Reg. No	. 51,868			
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Express Mail Label: EV 330856421 US I hereby certify that this correspondence is Address" service under 37 GFR 1.10 on the Commissioner for Patents, P.O. Box 1450	is date 07/2	2/2003ء	and is addressed to:	al Service wit	h "Express Mail Post Office to		
Typed or printed name Dana Kane	S a		/ /				
Signature	my)	Km		Date	07/23/2003		

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